NUS CORPORATION
A Halliburton Company

FIELD INVESTIGATION TEAM ACTIVITIES AT UNCONTROLLED HAZARDOUS SUBSTANCES FACILITIES — ZONE I

NUS CORPORATION
SUPERFUND DIVISION

441588

R-585-3-7-14
PRELIMINARY ASSESSMENT OF
UNION MILLS PAPER MANUFACTURING COMPANY
PREPARED UNDER

TDD NO. F3-8612-75
EPA NO. PA-1210 ORIGINAL
CONTRACT NO. 68-01-7346 (Red)

FOR THE

HAZARDOUS SITE CONTROL DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

JUNE 10, 1987

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY	REVIEWED BY	APPROVED BY
David D. Doran		
DAVID D. DORAN	THOMAS FROMM	GARTH GLENN
ENVIRON. SCIENTIST	ASSISTANT MANAGER	REG. OPERATIONS MANAGER, FIT 3

Site Name: Union Mills Paper
TDD No.: F3-8612-75

ORIGINAL (Red)

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ORIGINAL
(Red)

SECTION 1

1.0 INTRODUCTION

ORIGINAL (Red)

1.1 Authorization

NUS Corporation performed this work under Environmental Protection Agency Contract No. 68-01-7346. This specific report was prepared in accordance with Technical Directive Document No. F3-8612-75 for the Union Mills Paper Manufacturing Company property located in New Hope, Pennsylvania.

1.2 Scope of Work

NUS FIT 3 was tasked to perform a preliminary assessment of the Union Mills Paper Manufacturing Property in New Hope, Pennsylvania.

1.3 Summary

The Union Mills Paper Company property, located in New Hope, Bucks County, Pennsylvania, consists of an abandoned paper mill plant, four empty lagoons, a garage for tank truck repair and maintenance, and several tank trucks. Approximately two years ago, a leak of oil from a tank truck occurred; the oil was cleaned up immediately.[1] According to a soil analysis report for the empty lagoons, the material in the lagoons is nonhazardous and does not exhibit any characteristics that would cause contamination.[2]

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SECTION 2

ORIGINAL
(Red)

2.0 THE SITE

2.1 Location

The property is located on Route 32, South Main Street, approximately one mile south of the intersection of Route 202 and Route 32. The coordinates for the site are 40° 20' 50" latitude and 74° 56' 50" longitude.[3]

2.2 Site Layout

The site occupies approximately three acres. Four empty lagoons occupy approximately 1/2 acre of the site. The property is situated on an island in the Delaware River. The Delaware Canal is to the west; the Delaware River is located directly to the east. Route 32 is to the west of the canal. The property is accessed by a small bridge. The lagoons are located at the lower end of the property. A large abandoned paper mill is located in the middle and upper end of the property. A garage, a house, and several oil tank trailers are located between the mill and the lagoons. A surface water intake pipe for the mill is located to the northeast of the property at the river.[4]

2.3 Ownership History

Len Scanapieco, of Historical Developers of Pennsylvania, presently has equity ownership of the property and has been negotiating for complete ownership of the property since 1985 from Mr. Peter Cross, of Blue Bell Associates. Blue Bell Associates purchased the property in 1972. Union Mills Paper Manufacturing Company owned the land from the early 1800s until 1971.[4]

Mr. Edward Kerwin, of Kerwin Tank Lines, presently leases a portion of the property from Mr. Peter Cross, of Blue Bell Associates.[4]

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2.4 Site Use History

For the past 14 years, a portion of the property has been leased by Kerwin Tank Lines to park, repair, and maintain their oil tank trucks. Prior to this, the site was used by a luggage distributor and an antique car organization. From 1800 until 1971, the property was used as a lumber mill and paper manufacturing plant.[4]

2.5 Permit and Regulatory Action History

Routine tractor trailer maintenance and repair activities require no hazardous waste permit at all.

Approximately two years ago, about five gallons of no. 6 fuel oil leaked onto the ground at the property from a Kerwin Tank Lines tank trailer parked at the property. The Bucks County Department of Health performed a visual inspection of the property and determined that oil, as well as a small amount of kerosene and hydrochloric acid used for washing the trucks, was present on the ground at the property. The company was charged by the Health Department with violation of the Pennsylvania Clean Stream Law for discharge of oil and kerosene to the ground. The company was ordered in May 1985 to clean up the property within seven days of receipt of the letter of notification.[5]

2.6 Remedial Action To Date

Immediately after the Bucks County Health Department ordered the cleanup of the leaked oil in May 1985, company personnel burned any oily puddles and the oil-soaked soil on site. The washing of trucks with kerosene and hydrochloric acid has stopped, as ordered.[1]

ORIGINAL
(Red)

SECTION 3

3.0 ENVIRONMENTAL SETTING

ORIGINAL (Red)

3.1 Water Supply

[redacted]

3.2 Surface Waters

The property is situated on an island with the Delaware River on the east and the Delaware Canal on the west. Recreational uses of the Delaware River near the property include boating, fishing, water skiing, and tubing. Recreational uses of the canal north and south of the property include a privately operated mule barge ride. The towpath is open to anyone who wishes to walk along it.[6]

3.3 Hydrogeology

3.3.1 Geology

The site is in the Newark Basin, one of six principal basins in the Triassic Lowland Section of the Piedmont Physiographic Province. The geology of the Newark Basin pertaining to the site is characterized by Triassic sedimentary rocks which were subsequently intruded by diabase. Pleistocene and Recent sediments occur along the Delaware River as valley fill in the ancestral channel of the Delaware River.[7]

Undifferentiated Pleistocene glacial outwash and Recent alluvium have been mapped as directly underlying the site. The Pleistocene deposits constitute nearly all of the valley fill; Recent alluvium occurs as thin surficial flood plain deposits. These valley fill deposits consist of brown to gray coarse sand and gravel and subordinate amounts of clay, silt, and fine-grained sand. In general, the outwash deposits represent poorly sorted sediments of local and remote provenance which were transported by glacial melt waters. The lithology of the glacial wash is reported to vary laterally from place to place. The thickness of the valley fill may be 80 feet or more in the deep parts of the ancient buried channel.[7]

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Cropping out north and west of the Quaternary deposits are late Triassic rocks of the Brunswick Formation. Presumably, these rocks underlie the Quaternary deposits beneath the site. The lithofacies of the Brunswick Formation consists of irregularly bedded soft red shales that are locally interbedded with fine-grained sandstone. Due west of the site, the red shales and sandstones of the Brunswick grade upward into limestone. The thickness of the Brunswick is about 9,000 feet in Bucks County; however, it most likely only equals or exceeds 6,000 feet at some places in the county.[7]

To the southwest of the site, a diabase sill of late Triassic age intruded the sedimentary rocks of the Brunswick Formation, forming a prominant upland. The diabase is composed of nearly equal amounts of plagioclase and augite, and ilminite, quartz, and apatite as accessory minerals. Texturally, it may be medium to coarse grained. Portions of the sill may occur to a depth of approximately 1,000 feet. At the margin of the sill, the sedimentary rocks of the Brunswick Formation have been thermally altered to a hard, dark hornfels.[7]

Other stratigraphic units west of the Delaware and within a three-mile radius of the site area listed below in order of increasing age.[7]

- Pre-Wisconsin Pleistocene deposits are unconsolidated sand and gravel deposits in river terraces.

- Triassic Lockatong Formation is a dark gray to black, thick-bedded argillite containing a few zones of thin-bedded black shale.

- Ordovician Beekmantown limestone is a gray to blue, fine-grained, massive dolomite limestone.

- Cambrian Conococheague limestone is a light blue to gray, dense and massive dolomite limestone which contains numerous beds of sand and edgewise conglomerate.

A weathered zone of unconsolidated to semi-consolidated material overlies more competent bedrock. This overburden grades from soil-fine rock material to sandy and crumbly, gravel-like material to boulder-size rock in a clay matrix. The thickness of the weathered zone is variable and principally depends on the lithology and age of the underlying rock. Secondary fracture openings are often preserved in the weathered zone.[7]

3.3.2 Soils

On-site soils have been classified as Alton gravelly loam, flood, zero to five percent slopes (AlA). The Alton Series consists of deep and well-drained soils on outwash terraces. These soils formed in outwash material derived from shale, sandstone, quartzite, and some limestone. The permeability of Alton soils is rapid. A representative profile of Alton gravelly loam, zero to three percent slopes, is presented below.[8]

Ap - 0 to 8 inches, dark brown gravelly loam; weak, very fine, granular structure; very friable; 25 percent gravel; strongly acid; abrupt, smooth boundary.

B2 - 8 to 26 inches, brown very gravelly sandy loam; weak, medium, subangular blocky structure and lenses of thick, platy structure; friable; few thin silt films; 55 percent gravel; medium acid; clear, wavy boundary.

B3 - 26 to 32 inches, brown very gravelly loamy sand; weak; coarse, subangular blocky structure; very friable; 60 percent gravel; medium acid; clear, wavy boundary.

IIC - 32 to 60 inches, strong-brown stratified sand and gravel; medium acid.

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3.3.3 Groundwaters

The occurrence and movement of groundwater in bedrock of the stratigraphic units within a three-mile radius of the site is primarily along fractures such as joints, bedding plane fractures, and faults. In the carbonate rocks of the Beekmantown and Conococheague limestones, groundwater occurs and moves through cavities and channels that formed by solution processes along fractures. The occurrence and movement of groundwater in the Quaternary deposits and in unconsolidated rock material overlying more competent bedrock is through intergranular openings. The permeability of bedrock depends on the number of fracture openings per unit area, the size of the openings, and the interconnection of openings. The permeability of unconsolidated rock material depends on the texture and sorting of the material. Recharge of bedrock is by the infiltration and percolation of precipitation through the weathered zone. Recharge of the Quarternary deposits is directly through precipitation. The flow of groundwater in the unconsolidated Quaternary deposits, the weathered zone, and shallow bedrock is generally under water-table conditions. With depth, semi-artesian to artesian conditions occur. Direction of groundwater flow beneath the site is expected to be east toward the Delaware River.[7]

3.4 Climate and Meterology

The average annual temperature in the area is 54.6 inches. The average annual precipitation is 41.38 inches. Net precipitation is 7.38 inches. The 1-year, 24-hour rainfall is 2.5 inches.[9]

3.5 Land Use

There are scattered residential units to the south and west of the property. The land is more densely populated as one travels north towards New Hope. The canal and land to the south are part of a municipal park system.[4]

3.6 Population Distribution

ORIGINAL (Red)

[redacted]

3.7 Critical Environments

According to information from the United States Department of the Interior, Fish and Wildlife Service, no federally listed or proposed threatened or endangered species are known to exist in the vicinity of the site.[10]

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(Red)

SECTION 4

ORIGINAL (Red)

4.0 WASTE TYPES AND QUANTITIES

According to a Bucks County Department of Health investigation, up to 100 gallons of no. 6 fuel oil leaked onto the ground from an oil tank truck.[5] According to Mr. Edward Kerwin, approximately five gallons of oil leaked from his oil tank truck. Mr. Kerwin stated that the oil-soaked soil was shoveled and burned on site by company personnel. Also, small amounts of kerosene and hydrochloric acid, used to wash trucks, dripped on the ground during washings. This use of kerosene and hydrochloric acid to wash the trucks has stopped, according to Mr. Kerwin.[1]

SECTION 5

5.0 FIELD TRIP REPORT

ORIGINAL (Red)

5.1 Summary

On Monday, February 2, 1987, FIT 3 members David Doran and Andrew Frebowitz conducted a preliminary assessment of the Union Mills Paper Manufacturing Company site in New Hope, Bucks County, Pennsylvania.

Weather conditions during the site visit were clear with temperatures near 45°F. The ground surface was snow covered.

5.2 Persons Contacted

5.2.1 Prior to Field Trip

Leonard Scannapieco
Project Director
Historical Developers of Pennsylvania
201 North Broad Street, 5th Floor
Philadelphia, PA 19107
(215) 751-2700

Edward Kerwin
Kerwin Tank Lines
5 Milyko Drive
Washington Crossing, PA 18477
(215) 493-8480

George Danyliu
PA DER
1875 New Hope Street
Norristown, PA 19401
(215) 270-1884

5.2.2 At The Site

Leonard Scannapieco
Project Director
Historical Developers of Pennsylvania
201 North Broad Street, 5th Floor
Philadelphia, PA 19107
(215) 751-2700

5.2.3 Post Field Trip

Edward Kerwin
Kerwin Tank Lines
5 Milyko Drive
Washington Crossing, PA 18477
(215) 493-8480

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5.3 Site Observations

- There were no HNU readings above the 0 ppm background.
- The mini-alert setting was X 1. There were no readings above background.
- The site is located on an island surrounded by the Delaware River and Delaware Canal.
- The northern portion of the site was utilized by Union Mills for a paper plant. The plant structure remains; however, it is abandoned. A portion of the plant was destroyed by fire.
- A water intake and storage tower used by the plant is immediately north of the plant building. This intake will be rebuilt to service the housing units planned for the island.
- Immediately south of the plant building is a fenced trailer yard. Six empty abandoned tank trailers were stored in this area. A small oil spill had occurred in this area; however, soils were removed. There was no evidence of spilled material.
- An access road divides the northern and southern sections of the island.
- South of the access road is the Kerwin Tank Line facility. Tank trailers are maintained, stored, and cleaned in this section of the site. There was no evidence of hazardous materials being used or stored.
- South of the trailer area is the abandoned Union Mills wastewater treatment facility.
- There are 4 storage lagoons, approximately 100 by 50 by 20 feet in size. Three lagoons are empty and heavily vegetated. The lagoon on the southeastern side is filled. This lagoon is also vegetated.

- An abandoned trickling filter is located in the central portion of the lagoon area.

EPA REGION III
SUPERFUND DOCUMENT MANAGEMENT SYSTEM

DOC ID # 441588
PAGE # _____

IMAGERY COVER SHEET
UNSCANNABLE ITEM

Contact the CERCLA Records Center to view this document.

SITE NAME US. Steel Corp

OPERABLE UNIT 00

SECTION/BOX/FOLDER IE BOX 2 1.002

REPORT OR DOCUMENT TITLE Preliminary Assessment

DATE OF DOCUMENT 06-10-87

DESCRIPTION OF IMAGERY Photographic Log

NUMBER AND TYPE OF IMAGERY ITEM(S) 1 pg of photographs

F3-8612-05

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION (ORIGINAL & 0007)

01 STATE	02 SITE NUMBER
PA	1210

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Union Mills Paper Manufacturing Company	Route 32

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
New Hope	PA	18938	Bucks	017	PA08

09 COORDINATES LATITUDE	LONGITUDE
40° 20' 50"	74° 56' 50"

10 DIRECTIONS TO SITE (Starting from nearest public road)

Route 202 east to New Hope, make right on Route 32 (Main Street). Proceed for approximately 3 miles south on Route 32. Mill and property are on the left.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Mr. Len Scannapieco	201 North Broad Street

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Philadelphia	PA	19107	(215) 751-2700

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Mr. Edward Kerwin	5 Milyko Drive

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
Washington Crossing	Pa	18477	(215) 493-8480

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES ☐ NO DATE 9 / 18 / 85 (MONTH DAY YEAR)

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☒ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)

CONTRACTOR NAME(S): BCM Eastern Incorporated

02 SITE STATUS (Check one)

☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

1800 (BEGINNING YEAR) | 1971 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Kerosene
Muriatic acid
No. 6 fuel oil

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Material in the lagoons is non-hazardous
Leaked oil has been cleaned up.
Truck washing has stopped.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☒ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency Organization)	03 TELEPHONE NUMBER
Lorie Acker	EPA	(215) 597-3165

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
David D. Doran	FIT 3	NUS	(215) 687-9510	3 / 2 / 87 (MONTH DAY YEAR)

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EPA ORIGINAL (Red)

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
PA	1210

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☒ C. SLUDGE
- ☐ D. OTHER (Specify)
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS:
CUBIC YARDS: unknown
NO. OF DRUMS:

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☒ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

BCM soil analysis report, project no. 00-4611-01
NUS Corporation logbook No. FIT 3-072
Bucks County Health Department waste discharge inspection report dated August 5, 1983

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POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
PA	1210

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None reported or observed.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None reported or observed.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None reported or observed.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

None reported or observed.

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

None reported or observed.

01 ☐ F. CONTAMINATION OF SOIL — 02 ☒ OBSERVED (DATE 8/5/83) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 1/2 acre (Acres) 04 NARRATIVE DESCRIPTION

Valve on tank truck opened by vandals causing fuel oil to leak onto ground.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None reported or observed.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None reported or observed.

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None reported or observed.

ORIGINAL
(Red)

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POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: PA | 02 SITE NUMBER: 1210

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported or observed.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

None reported or observed.

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported or observed.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, runoff, standing liquids, leaking drums) — 02 ☒ OBSERVED (DATE: 8/5/83) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION

According to a Bucks County Department of Health visual inspection report - August 5, 1983 up to 100 gallons of no. 6 fuel oil leaked on ground after vandals opened a valve on truck.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported or observed.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported or observed.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported or observed.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

No other hazards.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 0

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

BCM soil analysis report, project No. 00-4611-01
NUS Corporation logbook No. FIT 3-072
Bucks County Health Department waste discharge inspection report dated August 5, 1983

EPA FORM 2070-12 (7-81)

SECTION 6

6.0 REFERENCES FOR SECTIONS 1.0 THROUGH 5.0

1. Kerwin, Edward, Kerwin Tank Lines, with David D. Doran, NUS FIT 3. Telecon. March 2, 1987.

2. BCM Eastern, Incorporated. Soil Analysis Report, Project No. 00-4611-01, October 23, 1985.

3. United States Geological Survey. Lambertville, Pennsylvania Quadrangle, 7.5 Minute Series. Topographic Map. 1975, photorevised 1985.

4. NUS Corporation, FIT 3. Preliminary assessment; site visit. TDD No. F3-8612-75, February 2, 1987.

5. Bucks County Department of Health. Water Discharge Inspection Report. August 5, 1983.

6. Potter, W. Thomas, Borough of New Hope, with David D. Doran, NUS FIT 3. Telecon. March 4, 1987.

7. Pennsylvania Department of Environmental Resources, Bureau of Topographic and Geologic Survey. Groundwater Resources of Bucks County, Pennsylvania. Bulletin W11, 1955.

8. United States Department of Agriculture, Soil Conservation Service. Soil Survey of Bucks County, Pennsylvania. July 1975.

9. National Climatic Data Center. Local Climatological Data. Philadelphia, Pennsylvania, Annual Summary with Comparative Data. 1983.

10. United States Department of the Interior, Fish and Wildlife Service, to Garth Glenn, NUS FIT 3. Correspondence. February 6, 1987.

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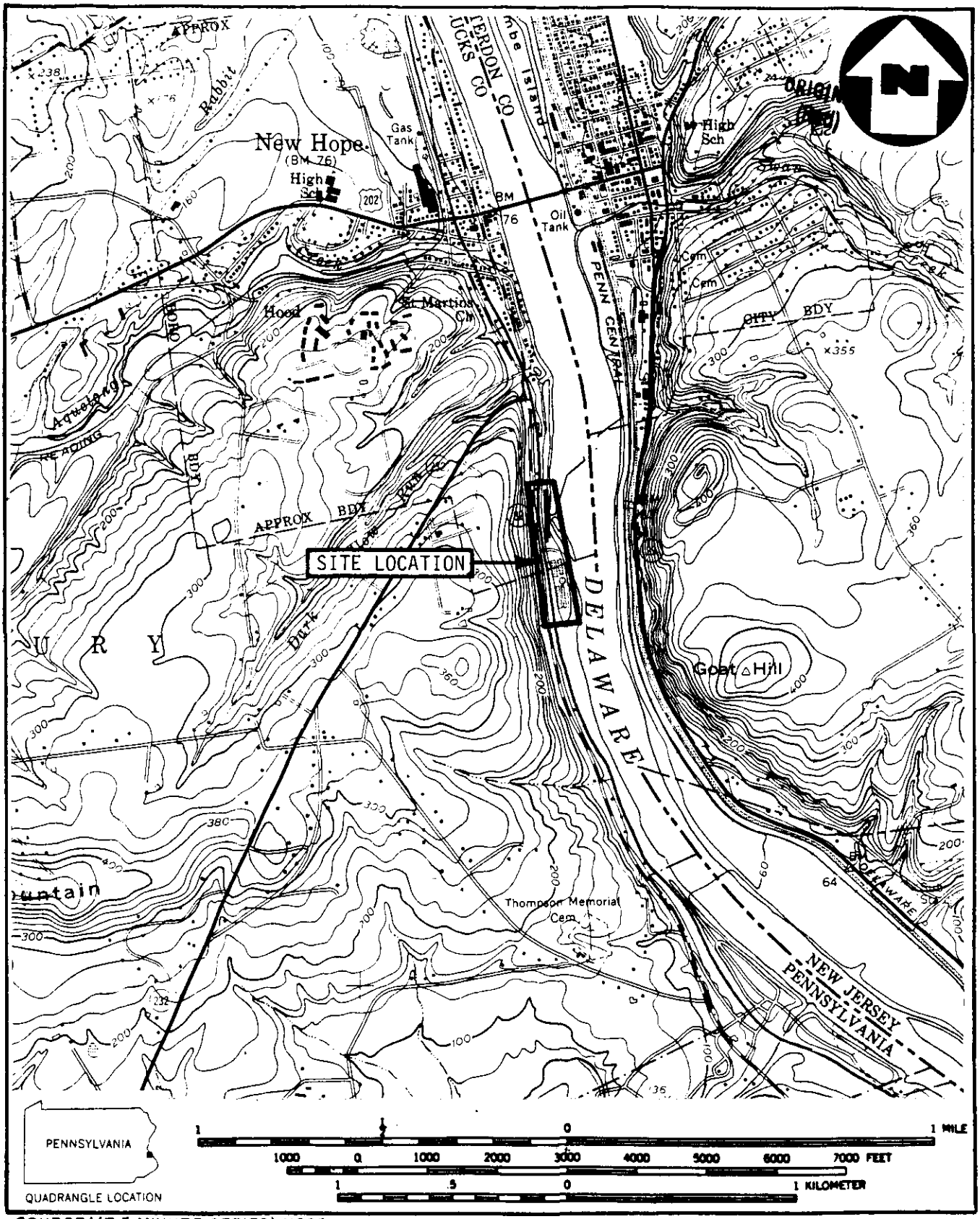
APPENDIX A

APPENDIX B



SOURCE: (7.5 MINUTE SERIES) USGS LAMBERTVILLE, PA.- N.J. QUAD.

SITE LOCATION MAP

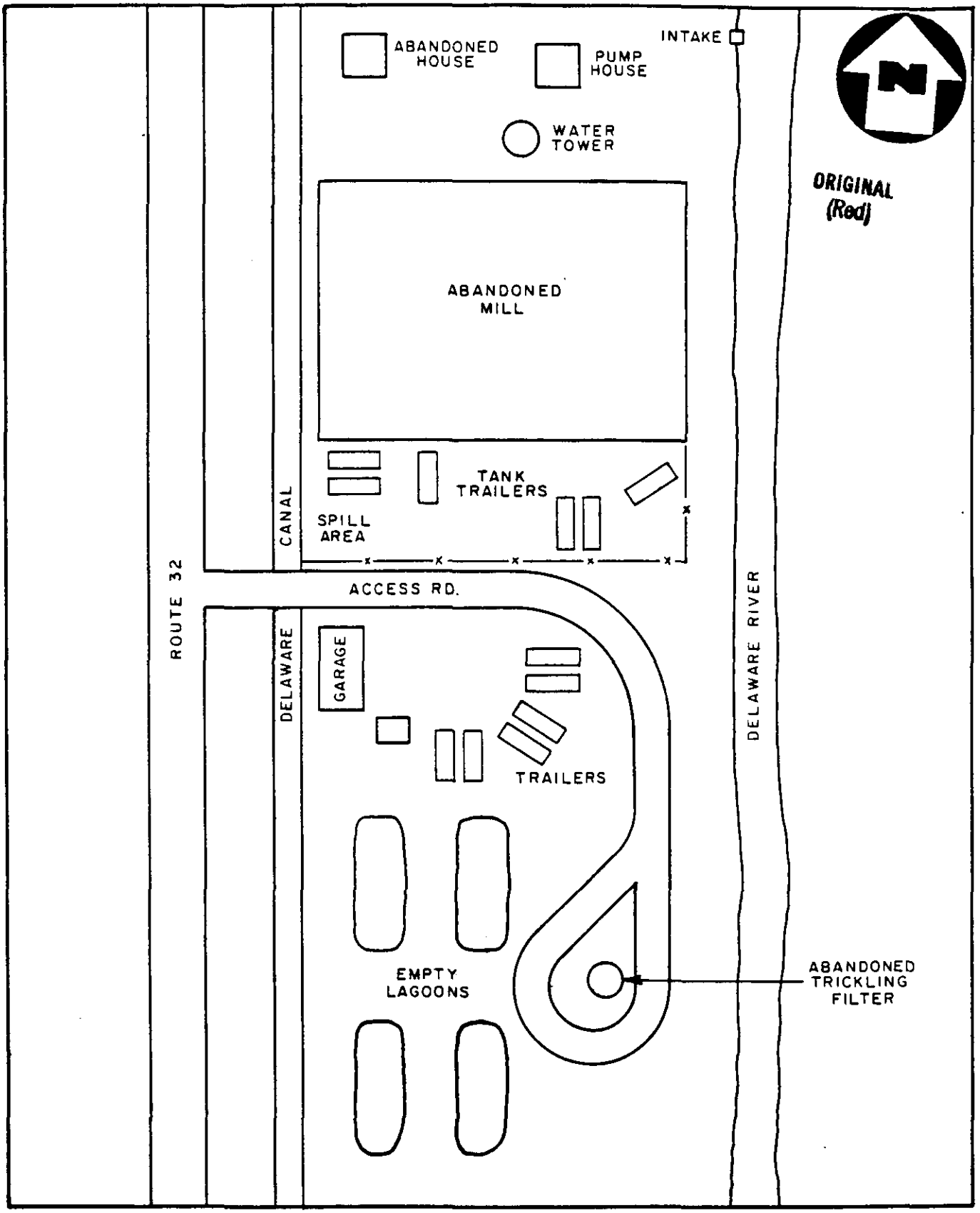
UNION MILLS PAPER MFG. CO., NEW HOPE, PA

SCALE 1:24000

FIGURE 1

NUS CORPORATION

A Halliburton Company



SITE SKETCH

UNION MILLS PAPER MFG. CO., NEW HOPE, PA

(NO SCALE)

FIGURE 2

NUS CORPORATION

A Halliburton Company

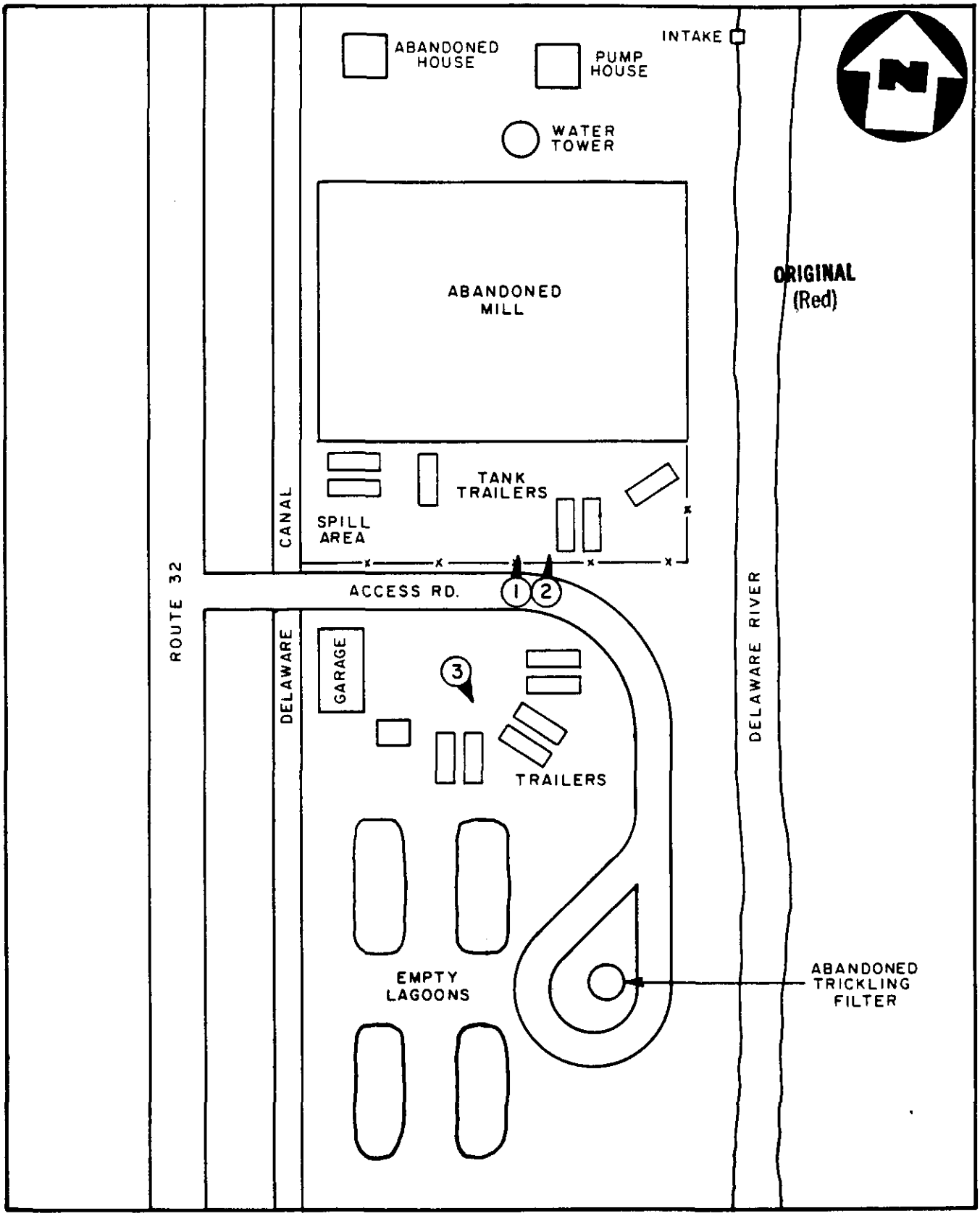


PHOTO LOCATION MAP

UNION MILLS PAPER MFG. CO., NEW HOPE, PA

(NO SCALE)

FIGURE 3

NUS CORPORATION

A Halliburton Company

ORIGINAL
(Red)

APPENDIX C

EXHIBIT 10

BCM Eastern Inc.
Engineers, Planners and Scientists
One Plymouth Meeting • Plymouth Meeting, PA 19462 • Phone: (215) 825-3800

ORIGINAL (Red)

January 8, 1986

Subject: Union Mills Project
BCM Project No. 00-4611-01

This is to summarize the results of our findings on the sampling done at your property in New Hope. This property was the site of a papermill operation, and two lagoons were used for disposal of waste materials. Residual sludge was left in these lagoons and the sampling performed included two samples from the lagoons. These sludge samples were analyzed on an "as is" basis along with the leachate from each. Based on your request for limited data at that time, the samples were analyzed for the metals in the PADER Module 1 Application.

The attached results indicate that the material in the lagoons is non-hazardous and does not exhibit any characteristics which would cause contamination that would be of concern to the USEPA or the DER.

BCM Laboratory Division
521 W. GERMANTOWN PIKE
NORRISTOWN, PA 19401
215-825-0447

PLEASE REMIT CHECKS TO:
BCM Eastern Inc.
1 PLYMOUTH MEETING
PLYMOUTH MEETING, PA 19462
215-825-3800

ORIGINAL (Red)

CLIENT

HISTORICAL DEVELOPERS
ATTN: JOHN INTRANTE
BCM HALL
PROJECT # 46-1101

DATE : 10/23/85
BCM # : - -
P.O.# :
ORDER : 01736

FINAL REPORT

PAGE : 1

This is the final report for the samples shown below. If you have any questions concerning this report please call 215-825-0447.

BCM NUMBER		S16947	S16948	S16949
CLIENT SAMPLE ID		H.D. L-1	H.D. L-2	H.D. LEACH OF L-1
DATE SAMPLED		09/18/85	09/18/85	09/18/85
DATE RECEIVED		09/18/85	09/18/85	09/18/85
METHOD AND TEST	UNITS	RESULTS	RESULTS	RESULTS
Silver (Flame)	mg/kg	<0.2	<0.2	
8 Silver (Graphite)	mg/l			<0.001
12 Arsenic	mg/l			<0.002
	mg/kg	0.480	0.971	
113 Barium (Flame)	mg/kg	81.7	81.7	
114 Barium (Graphite)	mg/l			0.04
26 Cadmium (Flame)	mg/kg	1.4	0.9	
27 Cadmium (Graphite)	mg/l			<0.002
29 Chromium (Flame)	mg/kg	5.70	3.00	
21 Hexavalent Chromium	mg/l			<.02

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ORIGINAL
(Red)

CLIENT

HISTORICAL DEVELOPERS DATE : 10/23/85

FINAL REPORT PAGE : 2

BCM NUMBER		516947	516948	516949
20 Chromium (Graphite)	mg/l			<0.002
24 Copper (Flame)	mg/l			<0.03
	mg/kg	26.6	23.9	
32 Mercury (Flame)	mg/l			<0.0002
	mg/kg	<0.1	<0.1	
Leachate by Toxic Extract. Proc.	Mo.Day	9/25/85	8/25/85	
110 Metal Digestion	Mo.Day	9/26/85	9/26/85	
42 Molybdenum (Flame)	mg/l			<0.50
	mg/kg	<5.0	<5.0	
34 Nickel (Flame)	mg/l			<0.10
	mg/kg	13.4	6.30	
28 Lead (Flame)	mg/kg	43.0	43.0	
27 Lead (Graphite)	mg/l			0.007
51 Antimony (Flame)	mg/l			<0.01
36 Selenium	mg/l			<0.004

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NORRISTOWN, PA 19401
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ORIGINAL
(Red)

CLIENT

HISTORICAL DEVELOPERS

DATE : 10/23/85

FINAL REPORT

PAGE : 3

BCM NUMBER		516947	516948	516949
	mg/kg	<0.040	<0.040	
44 Zinc (Flame)	mg/l			0.11
	mg/kg	205	113	

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215-825-3800

ORIGINAL
(Red)

CLIENT

HISTORICAL DEVELOPERS

DATE : 10/23/85

INAL REPORT

CM NUMBER	516930
CLIENT SAMPLE ID	H.D/ LEACH OF L-2
ATE SAMPLED	09/18/85
DATE RECEIVED	09/18/85

ETHOD AND TEST	UNITS	RESULTS
38 Silver (Graphite)	mg/l	<0.001
1 Arsenic	mg/l	<0.002
4 Barium (Graphite)	mg/l	0.03
17 Cadmium (Graphite)	mg/l	<0.002
1 Hexavalent Chromium	mg/l	<.02
0 Chromium (Graphite)	mg/l	<0.002
4 Copper (Flame)	mg/l	<0.03
2 Mercury (Flame)	mg/l	<0.0002
33 Molybdenum (Flame)	mg/l	<0.50
4 Nickel (Flame)	mg/l	<0.10
29 Lead (Graphite)	mg/l	0.003

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NORRISTOWN, PA 19401
215-825-0447

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215-825-3800

ORIGINAL

[redacted] CLIENT

HISTORICAL DEVELOPERS DATE : 10/23/85

FINAL REPORT PAGE : 5

BCM NUMBER			516950
1	Antimony (Flame)	mg/l	<0.01
76	Selenium	mg/l	<0.004
44	Zinc (Flame)	mg/l	0.06

LAB CERTIFICATION:

E A - #38007 NJ - #77175 EPA BULK ASBESTOS QC - #3339
AL - #40300 AIHA/NIOSH - #241/19401

METHOD	DESCRIPTION	METHOD	DESCRIPTION	METHOD	DESCRIPTION
1	EPA # 204.1	12	EPA # 206.2	16	EPA # 213.1
7	EPA # 213.2	19	EPA # 218.1	20	EPA # 218.2
21	EPA # 218.3	24	EPA # 220.1	28	EPA # 239.1
29	EPA # 239.2	32	EPA # 245.5	33	EPA # 246.1
4	EPA # 249.1	36	EPA # 270.3	37	EPA # 272.1
38	EPA # 272.2	44	EPA # 289.1	110	EPA - METALS
113	EPA # 208.1	114	EPA # 208.2	115	EPA # 7.0

<* END OF REPORT *>